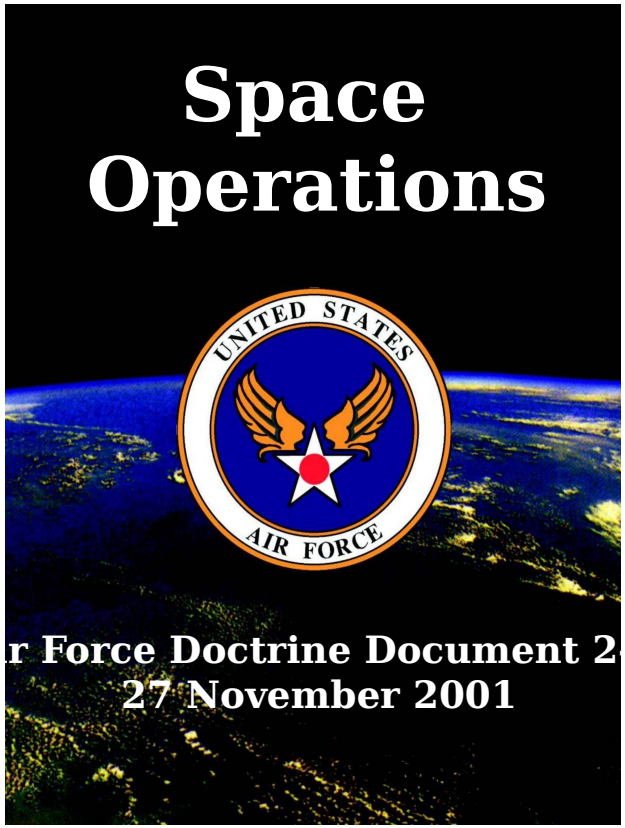
PURPOSE: Information Briefing on AFDD 2-2



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Presentation Overview

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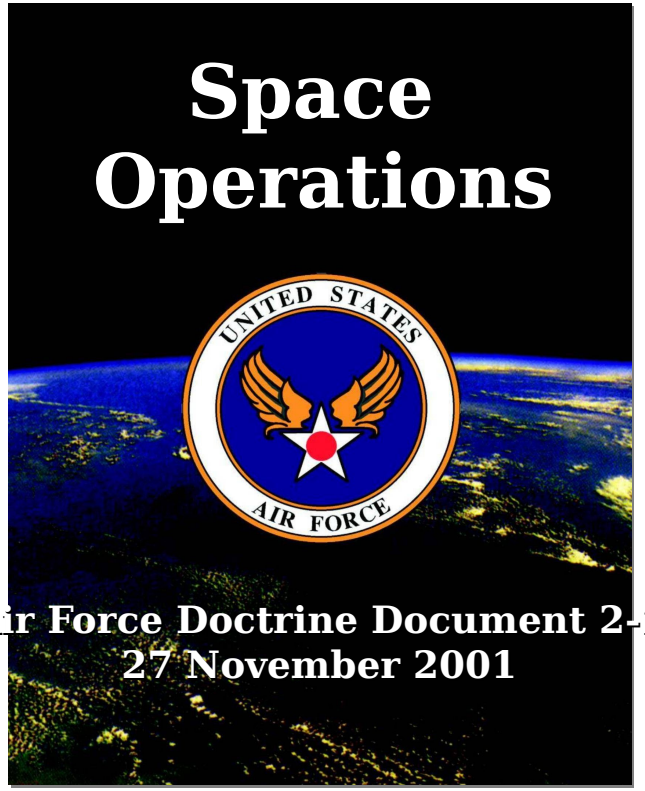
- Background
- Overview of AFDD 2-2
  - Chapter Outlines
  - Major Doctrine Concepts

AFDD 2-2, Space Operations Background



- CSAF signed 27 Nov 01
- Captures both the global and theater perspective
- Key to shaping JP 3-14, Joint Space Operations

Operations Old and New Comparison

- Old AFDD 2-2 (1998)
  - Content - 34 pages
  - Focus - Importance of space to warfighting
  - C2 – SPACECOM only
  - Space attributes
  - Little on planning
  - No Education/Training discussions
- New AFDD 2-2 (2001)
  - Content - 63 pages
  - Focus - Integrating space in theater ops
  - C2 – Within JTF operations
  - Air-space-info synergy
  - Chapter on planning
  - Chapter on Education /Training

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AFDD 2-2, Space Operations Key Concepts

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- Space planning and execution should be integrated with air and information operations
- C2 is dependent on the type and location of space forces
  - Global forces
  - Deployed forces
  - theater-organic forces
- Commercial and civil space support requires coordination authority vice traditional OPCON/TACON
- Single focal point in theater should reside with the Joint Force Air and Space Component Commander (JFASCC) when producing JOA-wide effects

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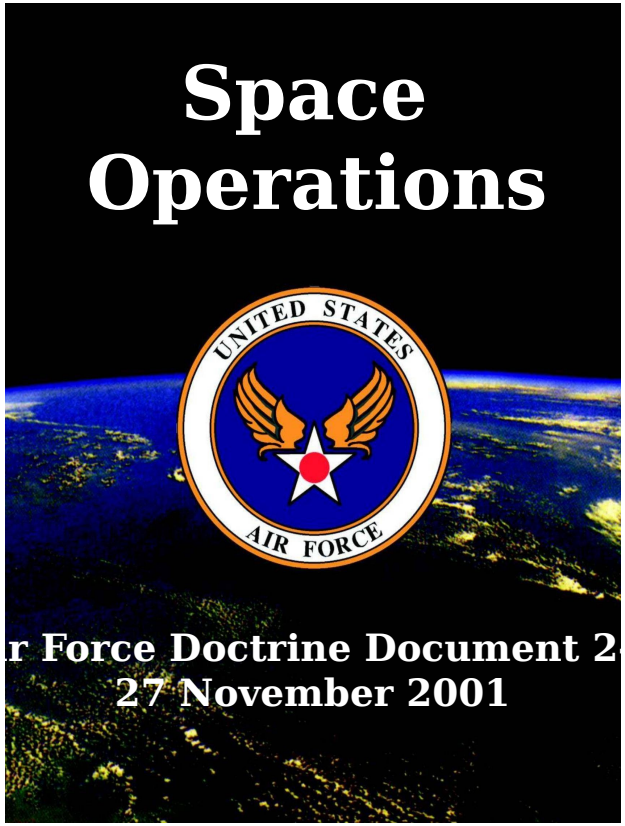
AFDD 2-2 Construct



Five Chapters

1. Space Operations Fundamentals
2. Command and Control
3. Planning
4. Execution
5. Training and Education

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CSAF Foreword

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- Space has become vital to our nation's strength and prosperity
- US promotes peaceful use of space, but our nation expects the Air Force to be prepared to defend
- We are witnessing the evolution of the space warrior, trained in planning and execution of space forces
- AFDD 2-2 advocates integrated space, air, and information operations for synergistic effects
  - Warfighting tenets and principles
  - Employment concepts for theater integration
  - A responsive command structure

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Chapter One

Space Operations Fundamentals

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- **Space contributions to the AF and military operations**
  - **Global presence**
  - **Perspective**
  - **Precision**
  - **Enhanced Flexibility**
- **Air, space, and information relationship**
  - **Interdependency of forces**
  - **Synergy through the right force mix for the right “effect”**
- **Ties to Basic Doctrine**
  - **Tenets of Air and Space Power**
  - **Air Force Functions**
  - **Core Competencies**

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Chapter One

Space Operations Fundamentals

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- **Presence -- continual and global … satellites are permanently “forward deployed”**
- **Perspective -- space forces, in combination with air and information capabilities, offer an ever-expanding view of the globe … the ultimate high ground**
- **Precision -- integration of space with airborne capability enhances precision in navigation, weapons delivery, ISR, environmental monitoring, and threat detection and warning**
- **Flexibility -- applied with air and information operations forces to create synergy**

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Chapter Two
Command and Control of Space Assets

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- Global vs. theater forces and considerations
  - C2 is based on the mix and location of forces and level of impact
  - Traditional C2 doesn't apply to nonmilitary assets
- Regional commander ultimately responsible for integrating space assets and effects for the region
- Planning and execution for JOA-wide effect should be vested with the Joint Force Air and Space Component Commander (JFASCC)
  - Ensures priority, timing, and effects for the CJTF

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Chapter Two
Command and Control of Space Assets

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- **Global forces**
  - **Fulfill individual theater, multiple theater, or national objectives**
  - **USCINCSPACE COCOM—employed through components**
  - **Requires centralized structure through USCINCSPACE**
  - **COMSPACEAF normally has OPCON of AF space forces**
- **Other global assets**
  - **National, commercial, and civil assets**
  - **COCOM, OPCON, TACON does not apply**
  - **Requires unity of effort through centralized coordination**
- **Examples**
  - **Satellites, surveillance radar**

Chapter Two
Command and Control of Space Assets

- **Theater forces**
  - **Subject to the timing, priority, and effects of the theater**
  - **OPCON, TACON, or Support, as specified**
  - **Service-organic forces—OPCON/TACON remain with the respective service component**
  - **Forces serving JOA-wide needs—OPCON/ TACON to a component commander who can integrate air, space, and information**
- **Examples**
  - **Augmentation personnel**
  - **Theater missile warning**
  - **Tactical satellite-to-ground receiving equipment**

Chapter Two
Command and Control of Space Assets

- **Joint Force Air and Space Component Commander (JFASCC)**
  - **Normally the COMAFFOR**
  - **Theater-wide perspective**
  - **Preponderance of forces and expertise**
  - **Ability to plan and direct those forces**
- **Key roles for serving the CJTF**
  - **Coordinating Authority--integrates space into the campaign**
  - **Supported commander for missions assigned by the CJTF**
    - **Theater counterspace activities**

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Chapter Three

Planning for Space Operations

- Integrated air, space, and information operations planning
- COMAFFOR responsibilities to CJTF
  - Deliberate Planning and Crisis Action Planning
  - Joint Air and Space Operations Plan (JAOP)
- SPACEAF Air Force Space Operations Plan (AFSOP)
- Legal issues

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Chapter Three
Planning for Space Operations

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- **Deliberate and crisis action planning**
  - **Considered at every level of planning and through all campaign phases**
  - **COMAFFOR supports the CINC's deliberate and crisis action planning through theater air, space, and information operations planning**
  - **Conducted as a single process rather than as separate air, space, and information processes**
  - **Key to effects-based planning and operations**

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Chapter Three

Planning for Space Operations

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- **Joint Air and space Operations Plan (JAOP)**
  - **Outlines COMAFFOR responsibility for air, space, and information operations planning**
  - **Space expertise distributed throughout AOC**
- **Air Force Space Operations Plan (AFSOP)**
  - **Equivalent to JFASCC's JAOP**
  - **Details SPACEAF support to theater and global requirements**
  - **Guides the development of the Space Tasking Order**

Chapter Three
Planning for Space Operations

- Legal considerations
  - US policy, law, treaties, commercial contracts, and agreements influence military actions in space
  - Particularly relevant to counterspace
  - Limitations on WMD in space, weapons on celestial bodies, interference with national technical means, and space ballistic missile defense (BMD)
  - No prohibitions on freedom of flight or weaponization
- US space policy and Outer Space Treaty preserve the right of self-defense

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Chapter Four
Executing Space Operations

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- Executing global forces
  - USSPACECOM
  - SPACEAF
- Executing theater AF space forces
  - Presented as part of the AETF
- Integrating commercial, civil, and foreign space assets

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Chapter Four
Executing Space Operations

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- **Global force execution**
  - **USSPACECOM SPOC disseminates mission type orders (MTO)**
  - **SPACEAF AOC translates MTO into Space Tasking Order (STO)**
  - **Directs AF space organizations for global and regional support**
- **Theater force execution**
  - **Deployed AF space forces normally attached to an AETF under the OPCON of the COMAFFOR**
  - **As JFASCC, the COMAFFOR should receive TACON of other services' assets for JOA-wide effect**
  - **Executed through C/JAOC operations with space expertise embedded in the AOC divisions**

Chapter Four
Executing Space Operations

- **Commercial, civil, and foreign space contributions**
  - **Military resources may be stressed during large-scale operations**
  - **Commercial, civil, and foreign systems offer additional sources for communications and imagery**
    - **Should be leveraged through pre-established agreements**
    - **Commanders cannot assume the same level of support**

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Chapter Five
Training and Education

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- Space training and evaluation
  - Levels of training
  - Role of exercises
- Education
  - Professional Military Education
  - Continuing academic education
- Wargames

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Chapter Five
Training and Education

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- Space training and education should occur throughout ones' career from accession to qualification, and beyond
- Evaluation is required to ensure training success
- Exercises integrate air, space, and information to fulfill training objectives and reflect real-world
- Space curricula should be included in all PME
- Wargames enable insight and learning—a key source for evolving space practices and doctrine

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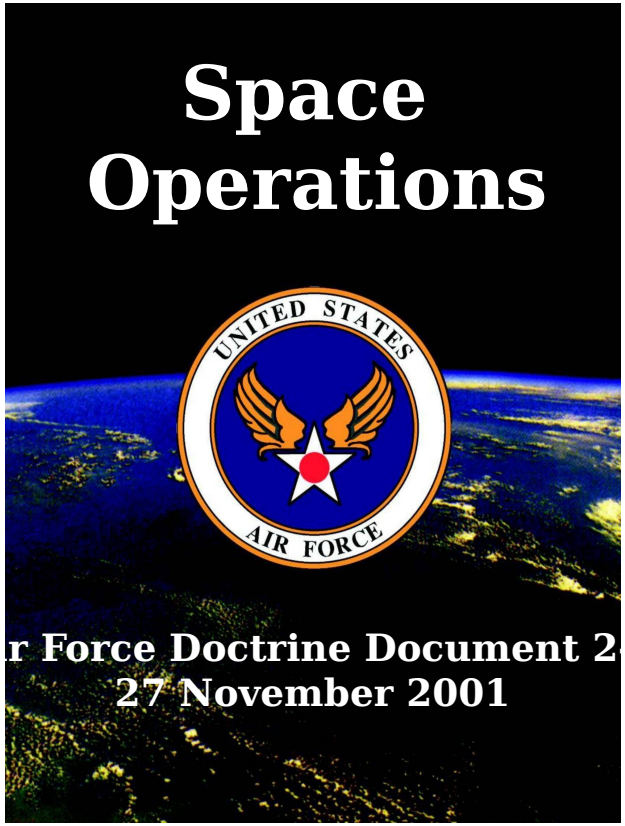
AFDD 2-2, Space Operations Summary



- AFDD 2-2 significantly improves understanding of space employment
- Marks the next evolution in space warfare